

ABSTRACT OF THE DISCLOSURE

A wireless communications system in which real-time data
5 and burst data can be mixedly transmitted, and a transmission band
can be dynamically assigned according to a state of data
transmission.

A master station has a scheduler for determining
transmission band assignment including information about
10 transmission timing of the data, a transmission amount, and a
station that is allowed to access. This scheduler regularly
carries out scheduling, and optimizes the transmission band to
be assigned dynamically according to the communication type of
the data and a state of data transmission. The master station
15 gives transmission band assignment determined by the scheduler
to each slave station. A transmitting station executes data
transmission (access) to a receiving station based on the given
transmission band assignment. The receiving station gives
information about a state of data receiving to the master station,
20 where the scheduler reflects this on scheduling.